

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017



Job No.: CTCE/BBMP/GG/W.No.12/CSR-87a/CEMENT/2021-22

Date: 19.04.2021

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	Sri. Govind.G, #150, 1 st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of Work	:	Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/47/2020-21 Dated : 24.06.2020
* Sample ID	:	Cement
Sample Received on	:	17.04.2021
Period of Testing	:	17.04.2021 to 19.04.2021
Report Issue Date	:	19.04.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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ವಾರ್ಡ್ ನಂ 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಜಿಲ್ಲಾಪಂಚಾಯಿ, ಬೆಂಗಳೂರು

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಅಂಚೆಪತ್ರಾಂಗ
ಜಿಲ್ಲಾಪಂಚಾಯಿ, ಬೆಂಗಳೂರು



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Job No.: CTCE/BBMP/GG/W.No.12/CSR-87a/SAND-Gradation/2021-22

19.04.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. Govind.G, #150, 1st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of Work	: Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/47/2020-21 Dated : 24.06.2020
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	: 17.04.2021
Date of Testing	: 19.04.2021
Report Issue Date	: 19.04.2021

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.70	90-100	90-100	90-100	95-100
2.36	83.00	60-95	75-100	85-100	95-100
1.18	57.70	30-70	55-90	75-100	90-100
600 Micron	37.60	15-34	35-59	60-79	80-100
300 Micron	18.40	5-20	8-30	12-40	15-50
150 Micron	5.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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ಬಿ.ಎಂ.ಪಿ. ಶಾಂತಿ ಗಾಂಧಿ ನಗರ

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Job No.: CTCE/BBMP/GG/W.No.12/CSR-87a/AGG/GR/2021-22

19.04.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. Govind.G, #150, 1st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of Work	: Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/47/2020-21 Dated : 24.06.2020
* Sample ID	: Coarse Aggregates (40mm)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received on	: 17.04.2021
Date of Testing	: 19.04.2021
Report Issue Date	: 19.04.2021

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.12	95-100	85-100
20	40.00	30-70	0-20
10	15.52	10-35	0-5
4.75	2.28	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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19.04.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore,
* Agency	: Sri. Govind.G, #150, 1st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of Work	: Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/47/2020-21 Dated : 24.06.2020
* Sample ID	: Coarse Aggregates (20mm)
Test Method As Per	: IS - 2386 (Part 1) : 1963(RA-2021)
Sample Received on	: 17.04.2021
Date of Testing	: 19.04.2021
Report Issue Date	: 19.04.2021

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	93.50	90-100	85-100
10	33.46	25-55	0-20
4.75	6.38	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/GG/W.No.12/CSR-87a/SAND-Gradation/2021-22

22.04.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. Govind.G, #150, 1st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of Work	: Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
*Reference	: EE/DD/W.O/47/2020-21 Dated : 24.06.2020
*Sample ID	: Sand for masonry mortars
Test Method As Per	: IS : 2116 : 1980 (RA-2017)
Sample Received on	: 20.04.2021
Date of Testing	: 22.04.2021
Report Issue Date	: 22.04.2021

Total Wt. of Aggregates in gms 1000

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 2116 - 1980 (RA-2017)
4.75	100.00	100
2.36	97.50	90-100
1.18	95.30	70-100
600 Micron	80.90	40-100
300 Micron	31.60	5-70
150 Micron	8.10	0-15

* Information is furnished by the Customer/Representative

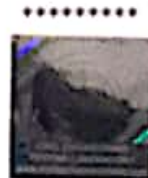
Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/GG/W.No.12/CSR-87a/CC Solid Block/2021-22

24.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. Govind.G, #150, 1st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of Work	: Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/47/2020-21 Dated : 24.06.2020
Test Method As Per	: IS: 2185 (Part-1) : 2005 (RA-2020)
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm ²
No. of Blocks Tested	: 08
Sample Received on	: 22.04.2021
Date of Testing	: 24.04.2021
Report Issue Date	: 24.04.2021

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2020)
1	Block 1	25.36	271.6	4.53	Minimum required Compressive Strength of Individual Units 4.00 N/mm ²
2	Block 2	24.75	265.8	4.43	
3	Block 3	26.31	258.4	4.31	
4	Block 4	24.85	263.8	4.40	
5	Block 5	26.35	281.4	4.69	
6	Block 6	24.71	268.5	4.48	
7	Block 7	27.12	259.6	4.33	
8	Block 8	25.65	264.1	4.40	

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Job No.: CTCE/BBMP/GG/W.No.12/CSR-87a/CC Solid Block/2021-22

20.04.2021

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. Govind.G, #150, 1st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of Work	: Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/47/2020-21 Dated : 24.06.2020
Test Method as per	: IS - 2185 (Part-1) : 2005 (RA-2020)
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm ²
No. of Blocks Tested	: 03
Sample Received on	: 18.04.2021
Date of Testing	: 20.04.2021
Report Issue Date	: 20.04.2021

Sl.No.	Size of Block in mm	Density in Kg/m ³	Average Density Kg/m ³	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2020)
1	400x150X200	2293.500	2298.17	1800 kg/m ³
2	400x150X200	2304.600		
3	400x150X200	2296.400		

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Job No.: CTCE/BBMP/GG/W.No.12/Steel/2021-22

11.05.2021

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. Govind.G, #150, 1st Main, Sheshadripuram, Opp CTO Office, Bangalore - 20.
* Name of work	: Construction of RO Plant in Ward No.12, Shettyhalli sub division, BBMP, Bangalore.
* Reference	: EE/DD/W.O/47/2020-21 Dated : 24.06.2020
* Samples ID	: 8mm Bar
Test Method as per	: IS - 1786 : 2008 (RA-2018)
Date of Testing	: 11.05.2021
Report Issue Date	: 11.05.2021

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	511	552	13.05	O.K	O.K

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